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⑤④ **Decorative plant picture assembly.**

⑤⑦ A decorative plant picture assembly comprises a flat box-shaped base body (1) having an opening on one side, a liquid-retaining material (2) packed in the base body, and a mounting material (3) disposed on the liquid-retaining material so as to cover the entire surface of the opening of the base body. The mounting material (3) is provided with a number of perforations (6) at location such that the perforations are formed in accordance with a picture pattern. A number of seeds of plants are embedded in the liquid-retaining material (2) near a rear surface of the mounting material (3), and the seeds germinate and grow through the perforations on the front surface of the mounting material, this constituting a picture pattern rich in variety when the seeds grow.

*C/aim 1*  
*C/aim 2*

*perforations*

## DECORATIVE PLANT PICTURE ASSEMBLY

This invention relates to decorative plant picture assembly in which leaves or flowers of growing plants are used as constituents for creating a picture pattern or design.

Framed pictures are usually hung on walls of a room for decorating offices, reception rooms or the like such as in homes, schools, of other buildings.

However, it may be said that such framed pictures are lacking in variety as a decorative material because the picture pattern or design is not changeable in itself. Moreover, it is not always easy and can be troublesome to take care of house plants or potted plants in a room or office, and particularly for flowering plants, the plants will lose their appeal after the flower season has passed.

An object of this invention is to provide a new type decorative plant picture assembly in which growing leaves or flowers of plants are made as constructional components of a picture or a part of the picture to thereby impart a graceful feeling, adding variety to the picture as a decorative article.

This object can be achieved, according to this invention, by providing a decorative plant picture assembly wherein a box-shaped base body having an opening on one side is prepared, a liquid-retaining material is packed in the box-shaped base body, and a mounting material provided with a number of perforations is disposed on the liquid-retaining material so as to cover the entire surface of the opening of the base body. When a number of seeds of plants are embedded in the liquid-retaining material near a rear surface of the mounting material so that the seeds germinate and grow as plant through the perforations on a front surface of the mounting material.

According to the decorative plant picture assembly of the construction described above, the seeds embedded in the liquid-retaining material germinate by properly supplying water preferably with manure or nutrient and grow through the perforations of the mounting material on the front surface thereof, whereby the grown plants constitute a part of the printed picture, or constitute a picture in itself by a suitable arrangement of the perforations. The growing plants vary the picture pattern as the time lapses, thus ensuring the decorative characteristics and imparting continuous amusement to persons. In addition, when the thus constructed picture assembly is accommodated in a picture frame and hung on the wall of a room or the like, the framed picture assembly serves as an interior decoration, and when the picture assembly is placed on a floor or a flower bed, a new plant picture flower bed can be provided.

Reference is now made to the accompanying

drawings, in which:-

Figure 1 is a cross-sectional view of a decorative plant picture assembly according to this invention;

Figure 2 is a front view of the picture assembly shown in Figure 1 when the same is applied as a hang-on type picture;

Figure 3 is an enlarged cross-sectional view of a portion of the picture assembly shown in Figure 1 for showing growing condition of plants;

Figure 4 is a brief illustration of the decorative plant picture assembly to which a liquid supply tank are attached;

Figure 5 is a perspective view of a base body of the picture assembly shown in Figure 1 for showing location of perforations for supplying liquid;

Figure 6A is a front view of the base body provided with crosspieces for sectioning the interior of the base body; and

Figure 6B is a cross-sectional view similar to that shown in Figure 1 but provided with crosspieces shown in Figure 6A.

A decorative plant picture assembly according to this invention, as shown in Figure 1 as a cross-sectional view, comprises a flat box-shaped frame-like base body 1 having one opening, a liquid-retaining material 2 having liquid containing ability to be charged in the base body, and a mounting material 3 preferably a mounting sheet, applied on the entire surface of the liquid-retaining material 2 on the opening side of the base body 1. Small seeds or pips 4 of flowers or plants are embedded in the liquid-retaining material 2 near the rear surface of the mounting material 3.

The base body 1 is made of a synthetic resin, for example, and in a case where the plant picture assembly of this invention is utilised as an interior decoration, the base body 1 is accommodated in a picture frame 5, as shown in Figure 2, integrally therewith or as a separate article to be secured thereto.

The liquid-retaining material 2 consists of a liquid bearing material such as continuously foamed resin made in flat-plate shape or consists of a liquid absorbing material having no fixed shape such as cotton packed into the box-shaped base body 1.

The mounting material 3 is made of a plastic sheet, cloth, Japanese paper, or the like material to which a lot of small perforations 6 are formed, the numbers thereof being properly decided as occasion demands in the following manner. In a case where a picture 7 is preliminarily printed on the

mounting material 3, the perforations 6 are formed at portions of the printed picture 7 through which plants are to be grown to constitute a portion of a picture pattern. In a case where no picture is preliminarily printed and the mounting material 3 is for example a solid colour sheet, the perforations 6 will be formed in accordance with a desired picture pattern to be constituted by grown plants.

The printing of the picture 7 on the surface of the mounting material 3 will be performed, for example, by means of known rotary press such as disclosed in the Japanese Patent Laid-Open Publication 56-144157, and according to the disclosed method, each printing can be carried out with high printing efficiency and at low cost. As a picture pattern to be printed, although a landscape picture is most available, a still-life picture of plants and a design-like abstract picture are of course appreciable.

The selection of the seeds 4 will be based on the height of a plant after the seed has been grown. The seeds 4 are embedded in the liquid-retaining material 2 at portions near or close to the rear surface of the perforated mounting material 3 to prevent the seeds from displacing and to ensure the germination and growing of the seeds 4 above the front surface of the mounting material 3 through the perforations 6. Particularly, in the case where the perforations 6 have been formed in coincidence with the printed picture pattern, the seeds 4 will be embedded or sowed in correspondence with the locations of the perforations 6.

As illustrated in Figure 4, a tank 8 containing a plant feed medium such as water with dissolved manure is attached to the base body 1, and a flexible hose means 9 connecting the tank 8 to the liquid-retaining material 2 is disposed at the bottom of the tank 8. When it is desired to hang the thus prepared picture on the wall of a room, it is preferable to attach the tank 8 to the upper portion of the picture frame accommodating the base body 1. A valve means 10 may be located on the way of the flexible hose 9 thereby to optionally supply and gradually percolate the water containing the manure in the tank 8 to the liquid-retaining material 2 to give nutrient to the seeds 4 for facilitating the germination and growth thereof. In a modification, as briefly shown in Figure 5, a plurality of holes 12 may be provided for the upper edge of the base bed 1 for directly supplying water therethrough into the liquid-retaining material 2. In another modification, water with nutrient may be supplied through a plurality of holes provided in the lower edge of the base body 1 by utilising capillary action.

Figure 6 is a brief illustration of a further modification of this invention in which a plurality of crosspieces are disposed in the base body 1 to divide the liquid-retaining material 2 into a plurality

of sections. This modification is applicable to a case when a considerably large base bed is utilised for preventing the liquid-retaining material 2 from shifting or displacing when the base body 1 is hung on the wall. It is of course desirable to form a plurality of perforations in the crosspieces 13 to enable the liquid with the nutrient to permeate evenly through the liquid-retaining material 2.

The decorative plant picture assembly of the construction described above will be used in the following manner.

In the case where the plant picture assembly is utilised as an interior decoration by hanging the picture frame 5 accommodating the base body 1, a picture 7 painted on the perforated mounting material 3 will be first enjoyed as if the picture 7 were a conventional framed picture. As time lapses, the seeds 4 embedded in the liquid-retaining material 2 into which water with the nutrient has been supplied germinate and gradually grow above the mounting material 3 through the perforations 6 formed in the mounting material 3 thereby to impart variation to the painted picture 7 as the plant grows, thus giving interest and amusement.

In another application of the decorative plant picture assembly of this invention, the base body 1 is horizontally placed to define a flower bed. The decorative plant picture assembly can be also enjoyed as a placed picture for a "tsubo" (small artificial) garden and the like.

All described and other modifications or variations of this invention are intended in the foregoing disclosure. The invention should therefore be construed broadly and in a manner consistent with the fair meaning or proper scope of the following claims.

## Claims

1. A decorative plant picture assembly comprising a box-shaped base body (1) having an opening on one side, a liquid-retaining material (2) packed in said base body (1), a mounting material (3) provided with a number of perforations (6) disposed on side liquid-retaining material (2) so as to cover the entire surface of the opening of said base body (1), and a number of seeds (4) of plants embedded in said liquid-retaining material (2) near a rear surface of said mounting material (3) so that said seeds (4) germinate and grow as plants through said perforations (6) on a front surface of said mounting material (3).

2. The decorative plant picture assembly according to Claim 1 wherein said perforations (6) are formed so as to match with a picture printed on said mounting material (3).

3. The decorative plant picture assembly according to Claim 1 wherein said perforations (6) are formed so as to constitute a picture pattern on a solid colour mounting material when said seeds (4) grow through said perforations.

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4. The decorative plant picture assembly according to any of claims 1 to 3 wherein said liquid-retaining material (2) consists of a continuously foamed resin.

5. The decorative plant picture assembly according to any of Claims 1 to 3 wherein said liquid-retaining material (2) consists of cotton.

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6. The decorative plant picture assembly according to any of Claims 1 to 5 wherein said mounting material (3) is a plastic sheet.

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7. The decorative plant picture assembly according to any of Claims 1 to 5 wherein said mounting material (3) is a cloth.

8. The decorative plant picture assembly according to any of Claims 1 to 5 wherein said mounting material (3) is a paper.

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9. The decorative plant picture assembly according to any of Claims 1 to 8 wherein said base bed (1) has at least one side portion provided with a plurality of perforations (6) through which liquid can be supplied into said liquid-retaining material (2).

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10. The decorative plant picture assembly according to any of Claims 1 to 8 including a liquid container (8) secured to one side portion of said base body (1) for supplying liquid into said liquid-retaining material (2) through a flexible hose (9) connecting said liquid container and an interior of said base body.

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11. The decorative plant picture assembly according to Claim 10 wherein amount of liquid supply is adjusted by means of a valve (10) controlling flow along said hose (9).

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12. The decorative plant picture assembly according to any of Claims 1 to 11 wherein said liquid-retaining material (2) is sectioned by cross-pieces (13) provided with a plurality of perforations for enabling liquid to permeate through the liquid-retaining material.

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13. The decorative plant picture assembly according to any of Claims 1 to 12 wherein said base body (1) is constituted so as to have a function and appearance to serve as a picture frame.

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14. The decorative plant picture assembly according to any of Claims 1 to 13 further comprises a picture frame (5) accommodating said base body (1).

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15. The decorative plant picture assembly according to any of Claims 1 to 14 wherein said seeds (4) are of flowering plants.

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16. A decorative plant picture assembly wherein growing plants (11) constitute a picture pattern.

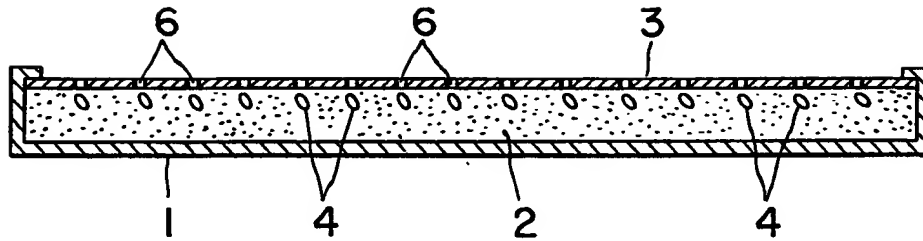
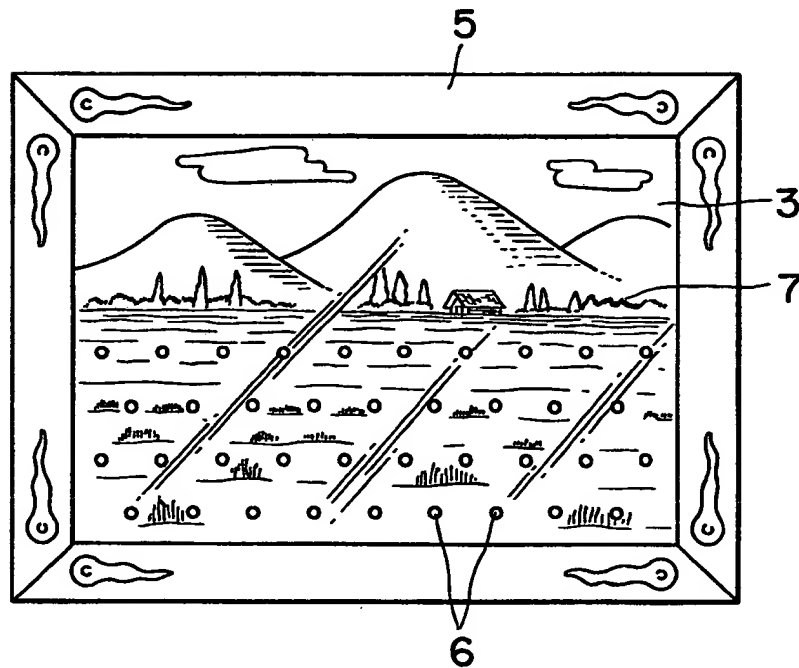


FIG. 1



**FIG. 2**

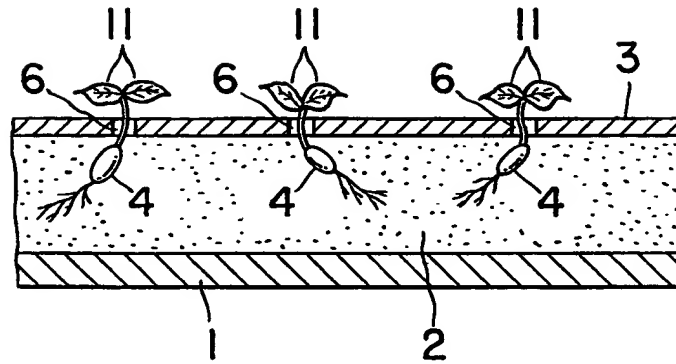


FIG. 3

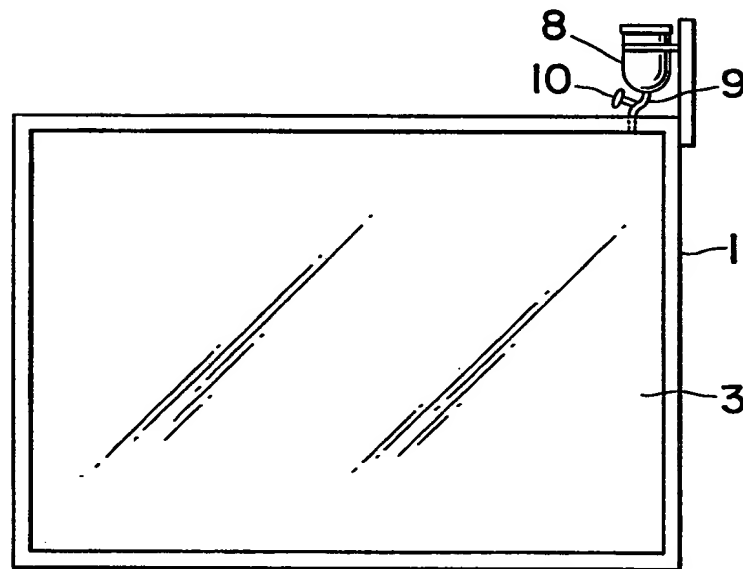


FIG. 4

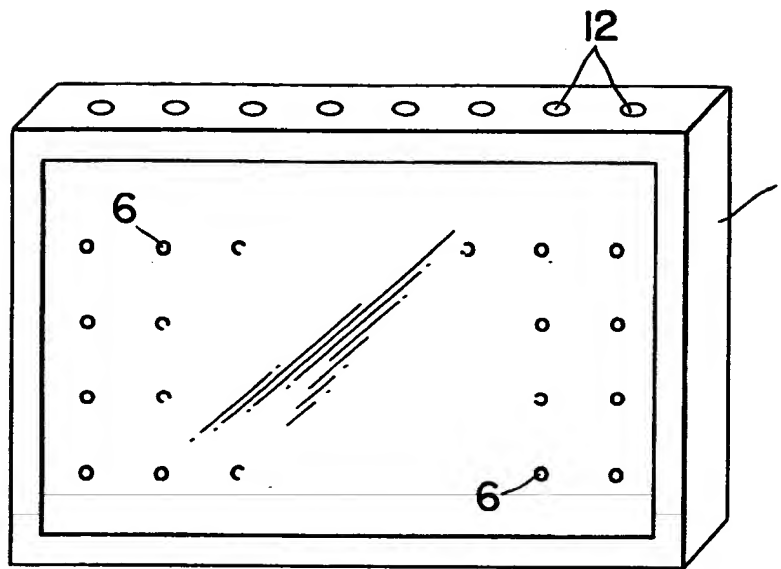


FIG. 5

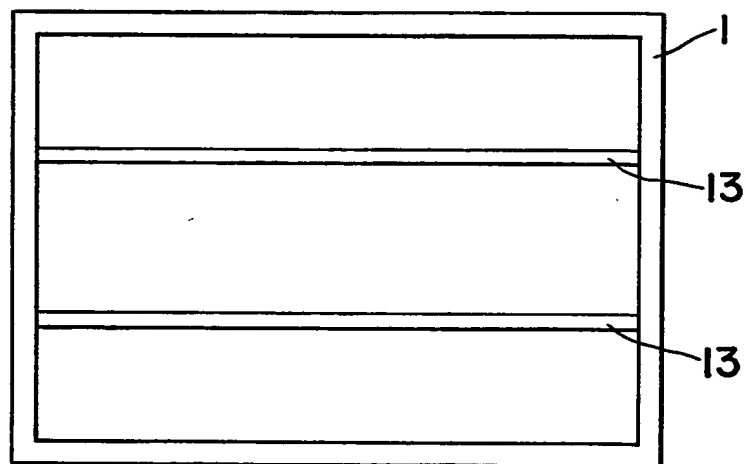


FIG. 6A

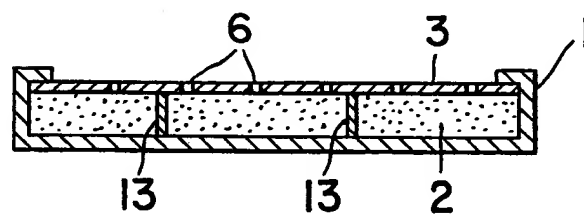


FIG. 6B



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# EUROPEAN SEARCH REPORT

Application Number

EP 88 30 1616

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
Y	GB-A- 902 550 (THE BRITISH XYLONITE CO.) * Page 1, line 61 - page 2, line 40; figures 1,2 * ---	1-5,9, 16	A 01 G 9/00
Y	US-A-3 869 829 (CHIOSSO) * Whole document *	1-4,9, 16	
A	---	10,11	
Y	GB-A-2 065 059 (HEPBURN) * Page 1, lines 84-112; figures 1,2 * ---	5	
Y	US-A-1 887 139 (RICHARDSON) * Page 1, line 53 - page 2, line 12; figures 1-3 * -----	3,16	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
			A 01 G A 01 C B 65 D
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 20-10-1988	Examiner HERYGERS J.J.
<b>CATEGORY OF CITED DOCUMENTS</b> X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document			